

#10



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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/724,427A

DATE: 11/26/2002 P6

TIME: 09:46:07

Input Set : A:\7682-053-999.txt

Output Set: N:\CRF4\11262002\I724427A.raw

5 <110> APPLICANT: Palese, Peter
 7 Garcia-Sastre, Adolfo
 11 <120> TITLE OF INVENTION: RECOMBINANT NEGATIVE STRAND RNA VIRUS EXPRESSION SYSTEMS AND
 12 VACCINES
 16 <130> FILE REFERENCE: 7682-053-999
 20 <140> CURRENT APPLICATION NUMBER: 09/724,427A
 C--> 22 <141> **CURRENT FILING DATE: 2001-11-28**
 26 <150> PRIOR APPLICATION NUMBER: 09/396,539
 28 <151> PRIOR FILING DATE: 1999-09-14
 32 <160> NUMBER OF SEQ ID NOS: 63
 36 <170> SOFTWARE: PatentIn version 3.0
 40 <210> SEQ ID NO: 1
 42 <211> LENGTH: 21
 44 <212> TYPE: DNA
 46 <213> ORGANISM: Influenza virus
 50 <400> SEQUENCE: 1
 51 tacgaggaaa tgttcctggt a 21
 54 <210> SEQ ID NO: 2
 56 <211> LENGTH: 19
 58 <212> TYPE: PRT
 60 <213> ORGANISM: Influenza virus
 64 <400> SEQUENCE: 2
 66 Gln Leu Val Trp Met Ala Cys Asn Ser Ala Ala Phe Glu Asp Leu Arg
 67 1 5 10 15
 69 Val Leu Ser
 72 <210> SEQ ID NO: 3
 74 <211> LENGTH: 16
 76 <212> TYPE: PRT
 78 <213> ORGANISM: Influenza virus
 82 <400> SEQUENCE: 3
 84 Thr Tyr Gln Arg Thr Arg Gln Leu Val Arg Leu Thr Gly Met Asp Pro
 85 1 5 10 15
 87 <210> SEQ ID NO: 4
 89 <211> LENGTH: 95
 91 <212> TYPE: DNA
 93 <213> ORGANISM: Influenza virus
 97 <400> SEQUENCE: 4
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 100 tcaccctgct tttgctgaat tcattcttct gcagg 95
 103 <210> SEQ ID NO: 5
 105 <211> LENGTH: 95
 107 <212> TYPE: DNA
 109 <213> ORGANISM: Influenza virus

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113 <400> SEQUENCE: 5
114 gaagcttaat acgactcact ataagcaaaa gcagggtgaa gtttaaatga tatgaaaaaa 60
116 cacccttggt tctactgaat tcattcttct gcagg 95
119 <210> SEQ ID NO: 6
121 <211> LENGTH: 68
123 <212> TYPE: DNA
125 <213> ORGANISM: Influenza virus
129 <400> SEQUENCE: 6
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132 cttctgca 68
135 <210> SEQ ID NO: 7
137 <211> LENGTH: 60
139 <212> TYPE: DNA
141 <213> ORGANISM: Influenza virus
145 <400> SEQUENCE: 7
146 gaagaatgaa ttcagcaaaa gcagggtgaa gtttaataga tcttatagtg agtcgtatta 60
149 <210> SEQ ID NO: 8
151 <211> LENGTH: 42
153 <212> TYPE: DNA
155 <213> ORGANISM: Influenza virus
159 <400> SEQUENCE: 8
160 ccgaattctt aatacgactc actataagta gaaacaaggg tg 42
163 <210> SEQ ID NO: 9
165 <211> LENGTH: 30
167 <212> TYPE: DNA
169 <213> ORGANISM: Influenza virus
173 <400> SEQUENCE: 9
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177 <210> SEQ ID NO: 10
179 <211> LENGTH: 15
181 <212> TYPE: RNA
183 <213> ORGANISM: Influenza virus
187 <400> SEQUENCE: 10
188 caccugcuu uugcu 15
191 <210> SEQ ID NO: 11
193 <211> LENGTH: 15
195 <212> TYPE: RNA
197 <213> ORGANISM: Influenza virus
201 <400> SEQUENCE: 11
202 caccugcuu uuacu 15
205 <210> SEQ ID NO: 12
207 <211> LENGTH: 15
209 <212> TYPE: RNA
211 <213> ORGANISM: Influenza virus
215 <400> SEQUENCE: 12
216 caccugcuu cugcu 15
219 <210> SEQ ID NO: 13
221 <211> LENGTH: 15
223 <212> TYPE: RNA

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230 caccucguuu uugcu 15
233 <210> SEQ ID NO: 14
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239 <213> ORGANISM: Influenza virus
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244 caccuugcu uuugcu 16
247 <210> SEQ ID NO: 15
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251 <212> TYPE: RNA
253 <213> ORGANISM: Influenza virus
257 <400> SEQUENCE: 15
258 caccucguuu uuacu 15
261 <210> SEQ ID NO: 16
263 <211> LENGTH: 15
265 <212> TYPE: RNA
267 <213> ORGANISM: Influenza virus
271 <400> SEQUENCE: 16
272 caccucguuu cugcu 15
275 <210> SEQ ID NO: 17
277 <211> LENGTH: 16
279 <212> TYPE: RNA
281 <213> ORGANISM: Influenza virus
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286 caccuugcu uuacu 16
289 <210> SEQ ID NO: 18
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295 <213> ORGANISM: Influenza virus
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303 <210> SEQ ID NO: 19
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307 <212> TYPE: RNA
309 <213> ORGANISM: Influenza virus
313 <400> SEQUENCE: 19
314 caccuuguu ucuacu 16
317 <210> SEQ ID NO: 20
319 <211> LENGTH: 96
321 <212> TYPE: DNA
323 <213> ORGANISM: Influenza virus
327 <400> SEQUENCE: 20
328 ctagacgccc tgcagcaaaa gcagggtgac aaagacataa tggagaaaaa aatcactggg 60
330 tataccaccg ttgatatatc ccaatcgcat cgtaaa 96
333 <210> SEQ ID NO: 21
335 <211> LENGTH: 96
337 <212> TYPE: DNA

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Input Set : A:\7682-053-999.txt

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339 <213> ORGANISM: Influenza virus
343 <400> SEQUENCE: 21
344 gttcttttacg atgcgattgg gatatatcaa cggtggtata cccagtgatt tttttctcca 60
346 ttatgtcttt gtcaccctgc ttttgctgca gggcgt 96
349 <210> SEQ ID NO: 22
351 <211> LENGTH: 34
353 <212> TYPE: DNA
355 <213> ORGANISM: Influenza virus
359 <400> SEQUENCE: 22
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363 <210> SEQ ID NO: 23
365 <211> LENGTH: 38
367 <212> TYPE: DNA
369 <213> ORGANISM: Influenza virus
373 <400> SEQUENCE: 23
374 ctagatctat tacgccccgc cctgccactc atcgcagt 38
377 <210> SEQ ID NO: 24
379 <211> LENGTH: 34
381 <212> TYPE: DNA
383 <213> ORGANISM: Influenza virus
387 <400> SEQUENCE: 24
388 actgcgatga gtggcagggc ggggcgtaat agat 34
391 <210> SEQ ID NO: 25
393 <211> LENGTH: 38
395 <212> TYPE: DNA
397 <213> ORGANISM: Influenza virus
401 <400> SEQUENCE: 25
402 ctagatctat tacgccccgc cctgccactc atcgcagt 38
405 <210> SEQ ID NO: 26
407 <211> LENGTH: 97
409 <212> TYPE: DNA
411 <213> ORGANISM: Influenza virus
415 <400> SEQUENCE: 26
416 ctagacgcc tgcagcaaaa gcagggtgac aaagacataa tggagaaaaa aaatcactgg 60
418 gtataccacc gttgatatat cccaatcgca tcgtaaa 97
421 <210> SEQ ID NO: 27
423 <211> LENGTH: 96
425 <212> TYPE: DNA
427 <213> ORGANISM: Influenza virus
431 <400> SEQUENCE: 27
432 gttcttttacg atgcgattgg gatatatcaa cggtggtata cccagtgatt tttttctcca 60
434 ttatgtcttt gtcaccctgc ttttgctgca gggcgt 96
437 <210> SEQ ID NO: 28
439 <211> LENGTH: 30
441 <212> TYPE: DNA
443 <213> ORGANISM: Influenza virus
447 <400> SEQUENCE: 28
448 cggaattctc ttcgagcgaa agcaggagtt 30
451 <210> SEQ ID NO: 29

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Input Set : A:\7682-053-999.txt

Output Set: N:\CRF4\11262002\I724427A.raw

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453 <211> LENGTH: 51
455 <212> TYPE: DNA
457 <213> ORGANISM: Influenza virus
461 <400> SEQUENCE: 29
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465 <210> SEQ ID NO: 30
467 <211> LENGTH: 51
469 <212> TYPE: DNA
471 <213> ORGANISM: Influenza virus
475 <400> SEQUENCE: 30
476 catgggtgag ttctgaccaa aatctagatt ataaaatagg atacatatgc a 51
479 <210> SEQ ID NO: 31
481 <211> LENGTH: 43
483 <212> TYPE: DNA
485 <213> ORGANISM: Influenza virus
489 <400> SEQUENCE: 31
490 aatgtatcct attttataat ctagattttg gtcgaaactc acc 43
493 <210> SEQ ID NO: 32
495 <211> LENGTH: 24
497 <212> TYPE: DNA
499 <213> ORGANISM: Influenza virus
503 <400> SEQUENCE: 32
504 ggccactagt aggtcgacgc cggc 24
507 <210> SEQ ID NO: 33
509 <211> LENGTH: 22
511 <212> TYPE: DNA
513 <213> ORGANISM: Influenza virus
517 <400> SEQUENCE: 33
518 gcgctggcca tcttgccagc ca 22
521 <210> SEQ ID NO: 34
523 <211> LENGTH: 17
525 <212> TYPE: DNA
527 <213> ORGANISM: Influenza virus
531 <400> SEQUENCE: 34
532 agaaaaaat cactggg 17
535 <210> SEQ ID NO: 35
537 <211> LENGTH: 17
539 <212> TYPE: DNA
541 <213> ORGANISM: Influenza virus
545 <400> SEQUENCE: 35
546 ttacgccccg ccctgcc 17
549 <210> SEQ ID NO: 36
551 <211> LENGTH: 23
553 <212> TYPE: DNA
555 <213> ORGANISM: Influenza virus
559 <400> SEQUENCE: 36
560 gcgcacgat aggtcgacgc cgg 23
563 <210> SEQ ID NO: 37
565 <211> LENGTH: 55

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/724,427A

DATE: 11/26/2002
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Input Set : A:\7682-053-999.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:47; N Pos. 9

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/724,427A

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Input Set : A:\7682-053-999.txt

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L:22 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:725 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0